Electronic Reporting Tool

Software to Standardize
Source Test Planning, Reporting
and Assessment



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OAQPS/SPPD/MPG
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Presentation Topics

- Test Reporting History
- Test Report Workflow
- Test Report Uses
- Problem Areas
- A Solution of One
- Future





History

- 1970's
 - Paper, pencil, nomagraphs, slide rules
 - 1980's
 - Paper, pencil, nomagraphs, calculators
- 1990's
 - Paper, pencil, computers



Test Report Workflow

- Draft Plan paper
- Wait for comment paper approval
- Conduct test paper report
- State Agency observes test paper
- Assess validity of report
 - Transcription of data
- Acceptance of data paper report
 - Report results to EPA
 - Transcription of information





Test Report Uses

- Compliance certification
- Permit applications or revisions
- Permit fee determination
- Emissions Inventory
- Performance information

- Modeling
- Risk Assessment
 - Environmental Justice
 - เออนซอ
- TRI CERCLA SARA
- AIRS AFS reporting
- Complaint Evaluations





Areas of Opportunity

- Improve coordination
- Reduce duplicative work
- Standardize reports
- Improve information flow
- Reduce storage space
- Improve documentation
- Improve & standardize QA





The Electronic Reporting Tool

- Replaces resource intensive manual manipulation of paper reports
- Provides for single location for planning, calibration, field sampling, field inspection, data quality assessment documentation
- Highlights need for most critical data requirements
- Facilitates coordination between source and State
- documentation
 - Provides for electronic transmission of information







ERT - Main Menu

Setup / Test Plan

Facility Info

Process Info

Locations / Methods

Signatures

Full Test Plan

Test Data

Import Field Run Data

Input Lab Data

Process Data

Run Details

Tester Comments

Attachments

Test Plan Review

Test Plan Review

Test Data Review

Observer Comments

Test Reviewer Comments

Test Review

DQQ's

Printed Reports

Test Plan

Test Plan Review

Test Report

Test Report

Report Signatures

Select Project Data Set

Create New Project Data Set

Save Project Data Set As

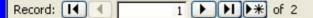
Compact Project Data Set

Current Project Data Set: D:\My Documents\ert\EWS Example Data.mdb

Project Submittal History:

8 0	Action	SubmitDate	SubmittedTo	SubmittedFrom	Comment
>	Submit Test Plan	5/15/2005	NC Agency	MACTEC	1st Final
	Approve Test Plan	5/14/2005	MACTEC	NC Agency	Approved
*					

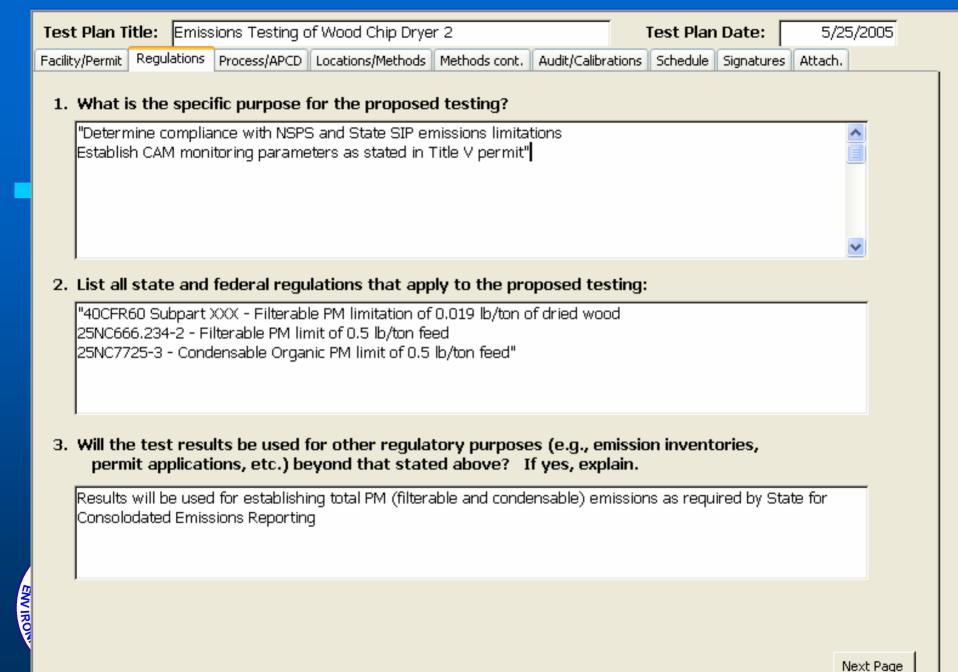
SUITED STATE















Facility/Permit Regulations Process/APCD Locations/Methods Methods cont. Audit/Calibrations Schedule Signatures Attach.

4a. Enter the process data to be documented during testing. (note: required before test data entry)

	Process Parameter	Units	TargetValue	comments	^
1	Natural Gas Fuel Flow	Ft^3/min	25	-	E.
	Dryer Outlet Temperature	deg F	325		30
	Druge Miland Food	TopoMy	105		
Re	ecord: [<	TIII .	>	

4b. Enter the process lab data to be documented during testing. (note: required before test data entry)

	Analysis Required	Units	Comments	1
•	Wood Moisture Content of feed material	percent		
	VVood Moisture Content of product	percent		
	√Vood density of feed material	lb/ton		
	√Vood density of product	lb/ton		1
Re	ecord: [<		>

5a. Please give a brief description of the source (including control equipment) and attach source or process flow diagram: Attach File

"PROCESS DESCRIPTION

Figure 2-1 illustrates the basic processing steps for OSB production. The steps are: Logs are slashed, debarked, cut into shorter lengths, and sliced into thin wafers.

5b. Control Devices: (note: required before test data entry)

	Control Device Parameters	Units	TargetValue	comments 🔥
•	PM - Electrified Filter Bed - Filter bed voltage, current, and temperature		0	
	PM - Electrified Filter Bed - Gas flow rate		0	
	PM - Electrified Filter Bed - Inlet gas temperature		0	~
Re	ecord: [] 4 1 1 1 1 1 1 1 1 1 1	<		>

Column widths may be changed by user.

Next Page

Test Plan Date:

5/25/2005

Facility/Permit Regulations Process/APCD Locations/Methods

Methods cont. | Audit/Calibrations | Schedule | Signatures |

Attach.

6. Please enter sampling location information. (all dimensions in inches)

(note: required before test data entry)

	Location	Num. Points	# of Ports	Rnd. Duct Diam.	Duct Len.	Duct Widtl	Equiv. Diam	Up Stream Dist	Dwn
•	Inlet	16	2	19.5	0	0	0	280	
	stack	16	2	72	0	0	0	280	
*		0	0	0	0	0	0	0	
Re	cord: 🚺 🖪	1	▶ ▶ ▶ • *	of 2	<				>

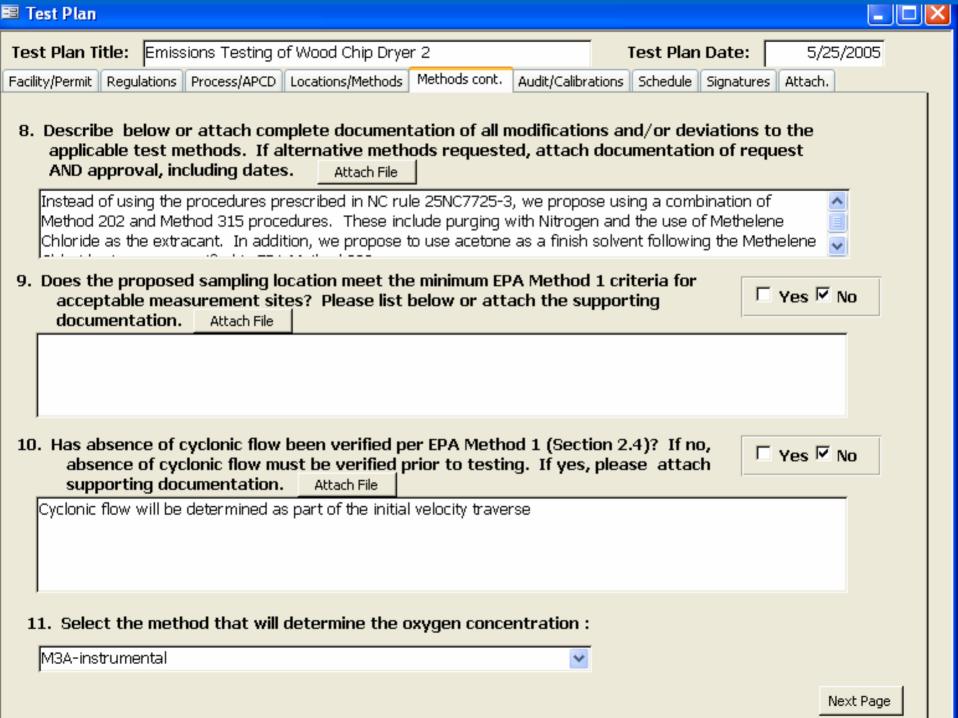
(Note: UpStreamDist = Distance from upstream disturbance

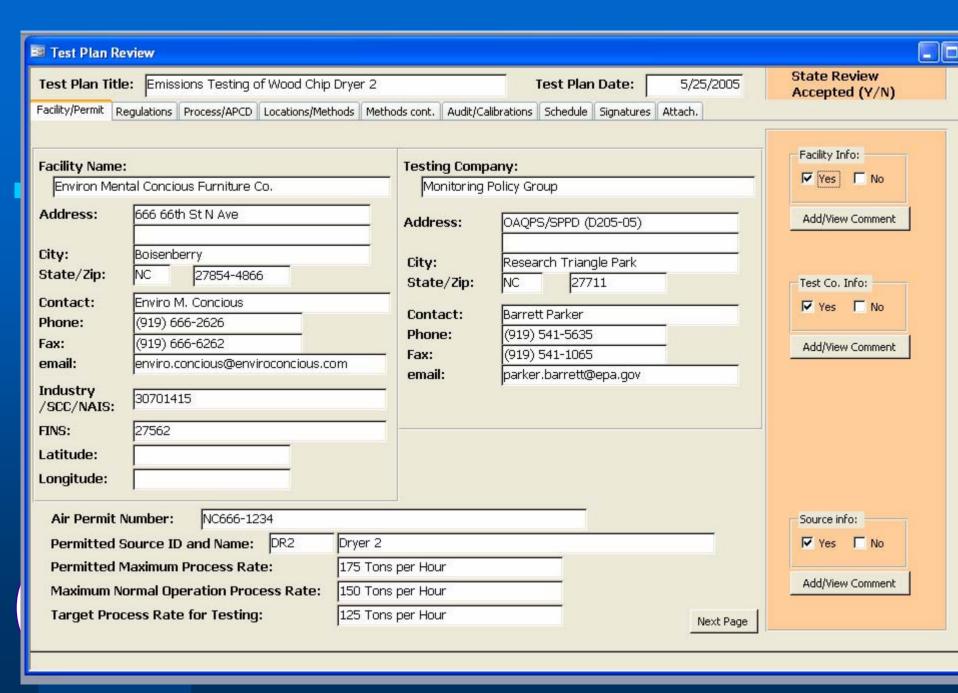
DwnStreamDist = Distance from downstream distuburbance)

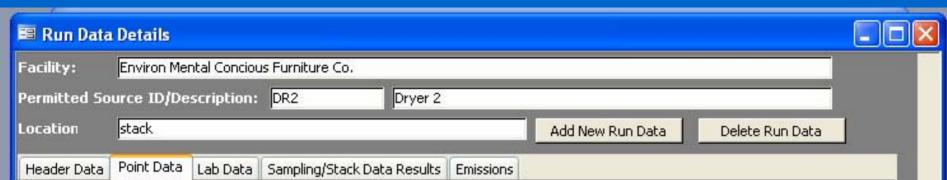
7. Please provide the following information for each test parameter.

(note: required before test data entry)

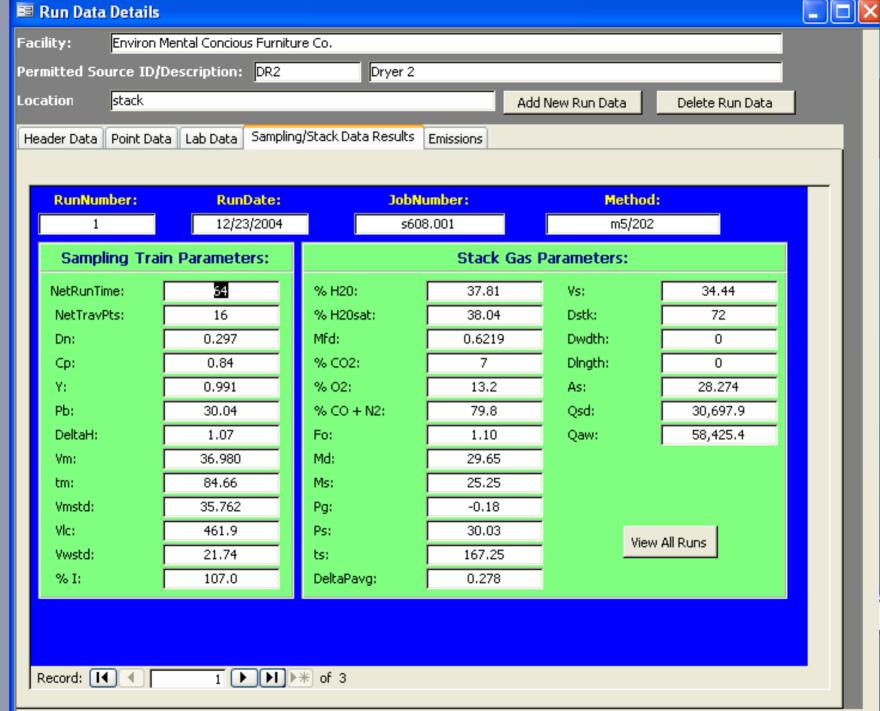
	Location	Target Parameter	Test Method	Num Test Runs	Test Run Duration	Comments			
•	Inlet	Filterable Particulate	m5	3	64				
	stack	Filterable Particulate	m5	3	64	one train for all			
	stack	Inorganic Condensible Particulate	m202	3	64				
	stack	Organic Condensible Particulate	M315	3	64				
	stack	Total Particulate		3	64				
*				0	0				
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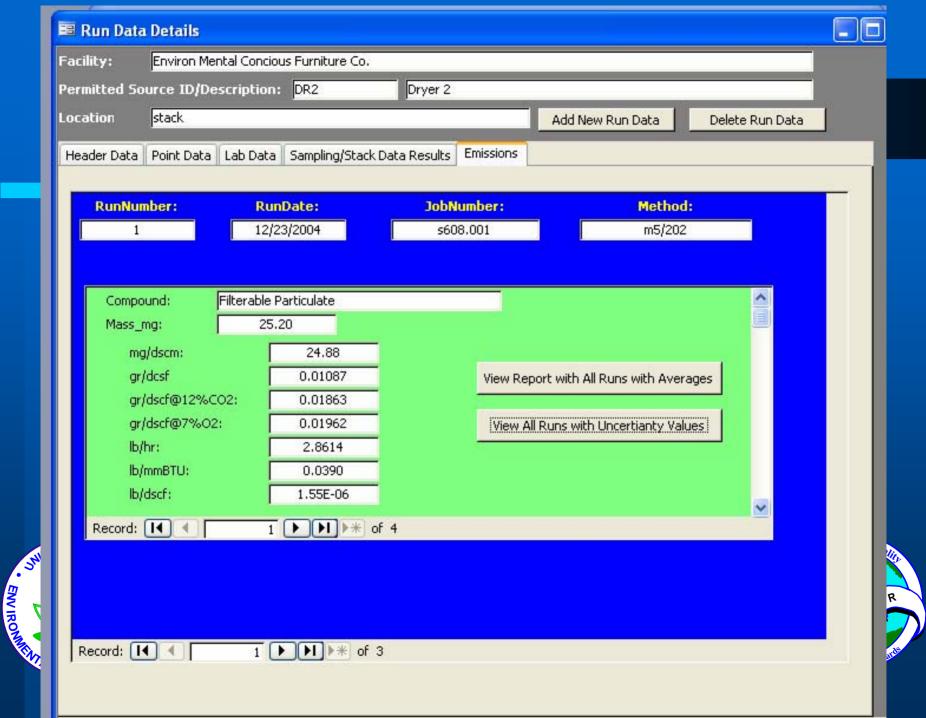




Ru	inNumber:	Rui	nDate:	JobNum	ber:		lethod:	
	1	12/2	23/2004	s608.0	01		m5/202	
	BeginTime	EndTime	Clock	GasMeter	Velocity	StackTemp	DryGasInlet	DryGasOu 🔨
>	0	4	12:02:00 PM	703.127	0.32	167	79	
	4	8	12:06:00 PM	705.411	0.32	168	80	
	8	12	12:10:00 PM	707.696	0.33	169	80	
	12	16	12:14:00 PM	709.980	0.33	169	81	
	16	20	12:18:00 PM	712.265	0.27	169	83	
	20	24	12:22:00 PM	714.549	0.27	169	84	
	24	28	12:26:00 PM	716.834	0.22	167	86	
	28	32	12:30:00 PM	719.118	0.22	166	87	
	32	36	12:41:00 PM	721.403	0.3	164	88	
	36	40	12:45:00 PM	723.687	0.3	168	89	
	40	44	12:49:00 PM	725.972	0.31	169	90	
	44	48	12:53:00 PM	728.256	0.31	169	91	
	48	52	12:57:00 PM	730.540	0.28	169	92	
	52	56	1:01:00 PM	732.825	0.28	169	93	~
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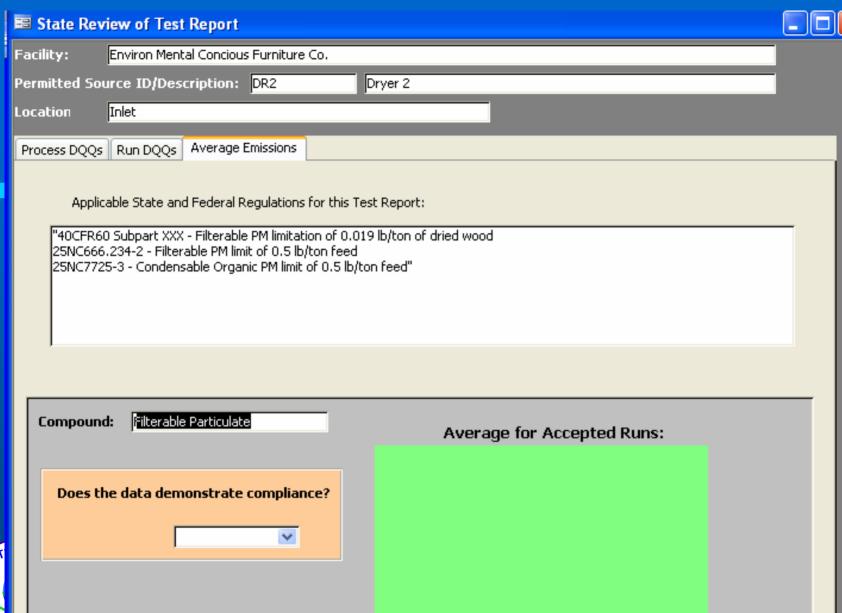


F	tunN	umber:	RunDate:	JobNumber:	Method:	
	In-	m5-1	9/8/2005	s608,001	m5	
	ID		G	U % Adj	Value (Y/N)	
	8	Is the pitot o	alibration data missing or o	utside of the specifications?	+ 75	У
	9	Is the pitot t	tube coefficient different fro	om 0.84, 0.99, or calib data?	+ 2	У
	10	Are the ther	mocouple devices calibration	on data missing or outside of s	pecs? + 75	У
	11	Is the flow r	ate more than 30% differer	nt from previous test?	+5	У
	12	Is the mass	determined gravimetrically	+ 3	У	
	13	Is the leak c	heck info missing or > 0.02	cfm?	+ 2	У
	14	Is the DGM o	calibration data missing or c	outside of specs?	+ 75	У
	15	Is the isokin	etic sampling rate < 90 or >	110 %?	+/- 2	У
	16	is the nozzie	e calibration data missing or	r outside of specs?	+ 75	У
	17	Is the raw fi	ield data missing?	+ 100	У	
	18	Is the labora	atory report insufficiently de	+ 100	У	
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Open Discussion

QUESTIONS?





